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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/643,795A

DATE: 08/13/2004

TIME: 15:39:27

Input Set : A:\P5026R1 sequence listing.txt

Output Set: N:\CRF4\08132004\J643795A.raw

7 <110> APPLICANT: FREDERIC J. DESAUVAGE
 8 GRETCHEN FRANTZ
 9 KENNETH J. HILLAN
 10 PAUL POLAKIS
 11 ANDREW POLSON
 12 VICTORIA SMITH
 13 SUSAN D. SPENCER
 14 THOMAS D. WU
 15 ZEMIN ZHANG
 17 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
 18 TREATMENT OF TUMOR
 20 <130> FILE REFERENCE: P5026R1-US
 22 <140> CURRENT APPLICATION NUMBER: US 10/643,795A
 23 <141> CURRENT FILING DATE: 2003-08-19
 25 <150> PRIOR APPLICATION NUMBER: US 60/404,809
 26 <151> PRIOR FILING DATE: 2002-08-19
 28 <150> PRIOR APPLICATION NUMBER: US 60/405,645
 29 <151> PRIOR FILING DATE: 2002-08-21
 31 <150> PRIOR APPLICATION NUMBER: US 60/413,192
 32 <151> PRIOR FILING DATE: 2002-09-23
 34 <150> PRIOR APPLICATION NUMBER: US 60/419,008
 35 <151> PRIOR FILING DATE: 2002-10-15
 37 <150> PRIOR APPLICATION NUMBER: US 60/426,847
 38 <151> PRIOR FILING DATE: 2002-11-15
 40 <150> PRIOR APPLICATION NUMBER: US 60/484,959
 41 <151> PRIOR FILING DATE: 2003-07-02
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 46 <211> LENGTH: 1870
 47 <212> TYPE: DNA
 48 <213> ORGANISM: Homo sapien
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 53 atcatgcccc ccgtggatga cattctggag cagggtgggg agtctggctg 100
 55 gttccagaag caagccttcc tcatcttatg cctgctgtcg gctgcctttg 150
 57 cgcccatctg tgtgggcac gtcttcctgg gtttcacacc tgaccaccac 200
 59 tgccagagtc ctgggggtggc tgagctgagc cagcgtgtg gctggagccc 250
 61 tgcggaggag ctgaactata cagtgccagg cctggggccc gcgggcgagg 300
 63 ccttccttgg ccagtgcagg cgctatgaag tggactggaa ccagagcgcc 350
 65 ctgagctgtg tagacccct ggctagcctg gccaccaaca ggagccacct 400
 67 gccgctgggt ccctgccagg atggctgggt gtatgacacg cccggctctt 450
 69 ccacgtcac tgagttcaac ctggtgtgtg ctgactcctg gaagctggac 500
 71 ctctttcagt cctgtttgaa tgcgggcttc ttgtttggct ctctcggtgt 550

ENTERED

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73  tggctacttt  gcagacaggt  ttggccgtaa  gctgtgtctc  ctgggaactg  600
75  tgctgggtcaa  cgcggtgtcg  ggcggtgtca  tggccttctc  gcccaactac  650
77  atgtccatgc  tgctcttccg  cctgctgcag  ggcttggtca  gcaagggcaa  700
79  ctggatggct  ggctacaccc  taatcacaga  atttggtggc  tcgggctcca  750
81  gaagaacggg  ggcgatcatg  taccagatgg  ccttcacggg  ggggctggtg  800
83  gcgcttaccg  ggctggccta  cgccctgctc  cactggcgct  ggctgcagct  850
85  ggcagtctcc  ctgcccacct  tctcttctct  gctctactac  tgggtgtgtg  900
87  cggagtcccc  tcgggtggctg  ttatcacaaa  aaagaaacac  tgaagcaata  950
89  aagataatgg  accacatcgc  tcaaaagaat  ggggaagttg  ctctgtgtga  1000
91  tttaaagatg  ctttccctcg  aagaggatgt  caccgaaaag  ctgagccctt  1050
93  catttgacga  cctgttccgc  acgcgcgcgc  tgaggaagcg  caccttcac  1100
95  ctgatgtacc  tgtggttcac  ggactctgtg  ctctatcagg  ggctcatcct  1150
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99  ctctgggtcga  aatcccgggg  gccttcatag  cctcatcac  cattgaccgc  1250
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103  ctgcctcgtc  atgattttta  tctcacctga  cctgcactgg  ttaaaccatca  1350
105  taatcatgtg  tggtggccga  atgggaatca  ccattgcaat  acaaatgatc  1400
107  tgccctggtg  atgctgagct  gtacccaca  ttcgtcagga  acctcggagt  1450
109  gatggtgtgt  tctccctgt  gtgacatagg  tgggataatc  acccccttca  1500
111  tagtcttcag  gctgagggag  gtctggcaag  ccttgccct  cattttgttt  1550
113  gcgggtgttg  gcctgcttgc  cgcgggagt  acgctacttc  ttccagagac  1600
115  caaggggggc  gctttgccag  agaccatgaa  ggacgccgag  aaccttggga  1650
117  gaaaagcaaa  gcccaaagaa  aacacgattt  accttaaggt  ccaaacctca  1700
119  gaacctcgg  gcacctgaga  gagatgtttt  gcggcgatgt  cgtgttggag  1750
121  ggatgaagat  ggagttatcc  tctgcagaaa  ttcctagacg  ctttcacttc  1800
123  tctgtattct  tctcatact  tgccacccc  caaattaata  tcagtcctaa  1850
125  agaaaaaaaa  aaaaaaaaaa  1870

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127 <210> SEQ ID NO: 2

128 <211> LENGTH: 731

129 <212> TYPE: DNA

130 <213> ORGANISM: Homo sapien

132 <220> FEATURE:

133 <221> NAME/KEY: Unsure

134 <222> LOCATION: 570, 575, 607, 611, 642, 672, 678

135 <223> OTHER INFORMATION: Unknown base

137 <400> SEQUENCE: 2

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142  aagtgttata  agaagatatt  ctttttttg  tcctagagaa  cttattttcc  150
144  tgtgaaaatg  cctaccacaa  agaagacatt  gatgttctta  tcaagctttt  200
146  tcaccagcct  tgggtccttc  attgtaattt  tgctctattc  ttgggacaca  250
148  agcatggatc  accagtacaa  ttgctgttag  agactctgct  tcaaatggga  300
150  gcattttcat  cacttacgga  ctttttcgtg  gggagagtag  tgaagaattg  350
152  agtcacggac  ttgcagaacc  aaagaaaaag  tttgcagttt  tagagatact  400
154  gaataattct  tcccaaaaa  ctctgcattc  ggtgactatc  ctgttccctg  450
156  tctgagttt  gatcacgtcg  ctgctgagct  ctgggtttac  cttctacaaa  500
158  cagcatcagc  aacccttacc  agacattcct  ggggcccagc  gggggtgtac  550
W--> 160  acctgggaac  gggcttcggg  gcatncttcg  tttttggtga  ccatgatact  600
162  ggtttgnngg  naacacgcag  gtcccacca  actcttccga  anaagttgtt  650

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164  tccaaaatgc tttacccccg gnaaccancc agtaaaggaa cgacccccaca 700
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168  <210> SEQ ID NO: 3
169  <211> LENGTH: 2974
170  <212> TYPE: DNA
171  <213> ORGANISM: Homo sapien
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176  gtattttctgc tcctgcagct cttctgtgtt ggctgtggat tctgtgggaa 100
178  agtcctgggtg tggccctgtg acatgagcca ttggcttaat gtcaagggtca 150
180  ttctagaaga gctcatagt agaggccatg aggtaacagt attgactcac 200
182  tcaaagcctt cgtaattga ctacaggaag cttctgcat tgaaatttga 250
184  ggtggtccat atgccacagg acagaacaga agaaaatgaa atatttggtg 300
186  acctagctct gaatgtcttg ccaggcttat caacctggca atcagttata 350
188  aaattaaatg atttttttgt tgaaataaga ggaactttaa aaatgatgtg 400
190  tgagagcttt atctacaatc agacgcttat gaagaagcta caggaaacca 450
192  actacgatgt aatgcttata gacctgtga ttccctgtgg agacctgatg 500
194  gctgagttgc ttgcagtcct ttttgtgctc acacttagaa tttctgtagg 550
196  aggcaatatg gagggaagct gtgggaaact tccagctcca ctttcctatg 600
198  tacctgtgcc tatgacagga ctaacagaca gaatgacctt tctggaaaga 650
200  gtaaaaaatt caatgctttc agttttgttc cacttctgga ttcaggatta 700
202  cgactatcat ttttggaag agttttatag taaggcatta ggaaggccca 750
204  ctacattatg tgagactgtg ggaaaagctg agatatggct aatacgaaca 800
206  tattgggatt ttgaatttcc tcaaccatac caacctaaact ttgagtttgt 850
208  tggaggattg cactgtaaac ctgccaaagc tttgcctaag gaaatggaaa 900
210  attttgtcca gagttcaggg gaagatggta ttgtggtgtt ttctctgggg 950
212  tcactgtttc aaaatgttac agaagaaaag gctaatatca ttgcttcagc 1000
214  ccttgcccag atcccacaga aggtgttatg gaggtacaaa ggaaaaaac 1050
216  catccacatt aggagccaat actcggctgt atgattggat accccagaat 1100
218  gatcttcttg gtcatcccaa aaccaaagct tttatcactc atggtggaat 1150
220  gaatgggata tatgaagcta tttaccatgg ggtccctatg gtgggagttc 1200
222  ccatatttgg tgatcagctt gataacatag ctacatgaa ggccaaagga 1250
224  gcagctgtag aaataaactt caaaactatg acaagcgaag atttactgag 1300
226  ggctttgaga acagtcatta ccgattcctc ttataaagag aatgctatga 1350
228  gattatcaag aattcaccat gatcaacctg taaagccct agatcgagca 1400
230  gtcttctgga tcgagtttgt catgcgccac aaaggagcca agcacctgcg 1450
232  atcagctgcc catgacctca cctggttcca gcactactct atagatgtga 1500
234  ttgggttctt gctgacctgt gtggcaactg ctatattctt gttcacaaaa 1550
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238  gagggaatag atctttccaa attcaagaaa gacctgatgg ggtaatcctg 1650
240  ttaattccag ccacatagaa tttggtgaaa accttgctat tttcatatta 1700
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244  gaggttgtga gtatatctca ttctttcgtt gtattttctt aggtgtcttt 1800
246  actctcttct ctcactttgt gacacaagga catgaataca tctaaatttt 1850
248  cctattttctg atatgactgt tttgatgatg tcattacttc tataacctta 1900
250  agtgataggg tgacatgcaa tatgattatt cctggtgtgc gcccaaacac 1950
252  atggatataa agaggtaaaa aacttaaaat tcacaaaatt cagtaaacca 2000
254  cacaaatcag gtaagtgttc tatgagatta gctggctatg agaaacataa 2050
256  tgatgtttct ttttcaattt aaataagcct ttctacatag ccagcatcag 2100

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260  aaaagtttgc tgtattttcca tagacctcat ctagatgtca tggcctacat 2200
262  ttctgccatc actcaaccaa tacttttttc tgttttcttg atgataaaaa 2250
264  gacctttctc atgattgcca tcaaataaca aaagaaacta ttttttttct 2300
266  cacatagaga acatgtcagt aagatattca aggtgaacag atatttttgg 2350
268  gattagtaac tatttgaaat atgtggtgat aattactgag tttataaaat 2400
270  ttatttgata gtacacttaa agaagattta tatgtttatt ctttaaaaaat 2450
272  gatgaatact cataattctt atctctataa tcaaaagtat aatttactgt 2500
274  agaaaaataa agagatgctt gttctgaaag taagatcagt gaactgcttt 2550
276  tcagtctcaa tctttgagaa ttgtaaattc atcaaataat tgcttacata 2600
278  gtaaaaattt aaggtattag aaaacctgca taacaaatag tattatata 2650
280  taaatatatt gatatgtaaa gctctacaca aagctaaata tagtgtaata 2700
282  atgtttacac tagtaagcaa atatgttaat cttctcattt ttttactgtc 2750
284  atataatctt agtgatatgc ctattaatag ttttaataaa ataaattggc 2800
286  ttatctggct ttttgaaaat tttgaaattc ttacagatgt tgattaggta 2850
288  tatctacaaa ttaatttcaa ttttaaaatg atgatataaa aataaatata 2900
290  agtatttttc ttgtgtatgt atacaataaa tataaataaa attgtttact 2950
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295 <211> LENGTH: 2459
296 <212> TYPE: DNA
297 <213> ORGANISM: Homo sapien
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304  cggacaaggc cacctcgccg ctctcgctgg atgctggcct cgggcaggcc 150
306  ccctggagcg acctgcttct ttgggcactg ttgctgaaca gggcacagat 200
308  ggccatgtac ttctgggaga tgggttccaa tgcagtttcc tcagctcttg 250
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314  tgacctcttt ggcgagtgc atcgagcag tgaggtgagg gctgcccgcc 400
316  tcctcctccg tcgctgcccg ctctgggggg gatgccactt gcctccagct 450
318  ggccatgcaa gctgacgccc gtgccttctt tgcccaggat ggggtacagt 500
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322  tgggacctgg ttctcgctt cttttgccct ccactcatct acaccgcct 600
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326  ttgacatgga tagtgtcatt aatggggaag ggctgtcgg gacggcggac 700
328  ccagccgaga agacgcccgt gggggcggcg cgccagtcgg gccgtccggg 750
330  ttgctgcggg ggccgctgcg gggggcgccg gtgcctacgc cgctgggttc 800
332  acttctgggg cgcgccggtg accatcttca tgggcaacgt ggtcagctac 850
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340  gccagcgggg gccccgggcc tggccatgcc tcaactgagc agcgctgcg 1050
342  cctctacctc gccgacagct ggaaccagtg cgacctagt gctctcact 1100
344  gcttctcctt gggcggtggc tgccggctga ccccggttt gtaccacctg 1150
346  ggccgcactg tcctctgcat cgacttcatg gttttcacgg tgcggctgct 1200
348  tcacatcttc acggtcaaca aacagctggg gcccaagatc gtcacgtga 1250
350  gcaagatgat gaaggacgtg ttcttcttcc tcttcttctt cggcgtgtgg 1300

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354 tgacttccca agtatcctgc gccgcgtctt ctaccgtccc tacctgcaga 1400
356 tcttcgggca gattccccag gaggacatgg acgtggccct catggagcac 1450
358 agcaactgct cgtcggagcc cggcttctgg gcacaccctc ctgggggcca 1500
360 ggcggggcacc tgcgtctccc agtatgcca ctggctggtg gtgctgctcc 1550
362 tcgtcatctt cctgctcgtg gccaacatcc tgctggtcaa cttgctcatt 1600
364 gccatgttca gttacacatt cggcaaagta cagggaaca gcgatctcta 1650
366 ctggaaggcg caggttaccg cctcatccgg gaattccact ctcgcccg 1700
368 gctggccccg ccttttatcg tcctctccca cttgcgcctc ctgctcaggc 1750
370 aattgtgcag gcgaccccg agcccccagc cgtcctcccc ggccctcgag 1800
372 catttcggg tttacctttc taaggaagcc gagcgaagt gctaactgtg 1850
374 gaatcggtgc ataaggagaa ctttctgctg gcacgcgcta gggacaagcg 1900
376 ggagagcgac tccgagcgtc tgaagcgcac gtcccagaag gtggacttgg 1950
378 cactgaaaca gctgggacac atccgcgagt acgaacagcg cctgaaagtg 2000
380 ctggagcggg aggtccagca gtgtagccgc gtccctggggg ggggtggccga 2050
382 ggccctgagc cgctctgcct tgctgcccc aggtgggccc ccacccctg 2100
384 acctgcctgg gtccaaagac tgagccctgc tggcggactt caaggagaag 2150
386 cccccacagg ggattttgct cctagagtaa ggctcatctg ggccctcgcc 2200
388 cccgcacctg gtggccttgt ccttgagggt agcccatgt ccactctggc 2250
390 cactgtcagg accacctttg ggagtgtcat cttacaaac cacagcatgc 2300
392 ccggctcctc ccagaaccag tcccagcctg ggaggatcaa ggcctggatc 2350
394 ccgggcccgtt atccatctgg aggtgcagg gtccctgggg taacagggac 2400
396 cacagacccc tcaccactca cagattcctc acactgggga aataaagcca 2450
398 tttcagagg 2459

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400 <210> SEQ ID NO: 5

401 <211> LENGTH: 1450

402 <212> TYPE: DNA

403 <213> ORGANISM: Homo sapien

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406 <221> NAME/KEY: Unsure

407 <222> LOCATION: 2

408 <223> OTHER INFORMATION: Unknown base

410 <400> SEQUENCE: 5

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413 gctcgccggc tagaaaaact ctgtcggtag caaccccaga gcgttgagag 100
415 cagcccacct ccacgcttcc ttaacggaga ggtgcaggac tcagacttca 150
417 ccagcccact cggtcaccag cttgtacgca aagagacgcc aaggacgcgc 200
419 tctcccgcgt ccaggcagcc ccagcttgtg ggcttgccctg cccgcctgcg 250
421 tgcagcactc ggccggcggtg cagcatgacc ctgtggaacg gcgtactgcc 300
423 tttttacccc cagccccggc atgccgcagg cttcagcggt ccactgctca 350
425 tcgttattct agtgtttttg gctctagcag caagcttcct gctcatcttg 400
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429 cagtctgttc ataggcgag aaattgtggc tgtgcacttc agtgcagaat 500
431 ggttcgtggg tacagtgaac accaacacat cctacaaagc cttcagcgca 550
433 gcgcgcgtta cagcccgtgt cggctctgctc gtgggcctgg agggcattaa 600
435 tattacactc acagggaccc cagtgcata gctgaacgag accattgact 650
437 acaacgagca gttcacctgg cgtctgaaag agaattacgc cgcggagtac 700
439 gcgaacgcac tggagaaggg gctgccggac ccagtgtctt acctggcgga 750
441 gaagttcaca ccgagtagcc cttgcggcct gtaccaccag taccacctgg 800

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RAW SEQUENCE LISTING ERROR SUMMARY
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Output Set: N:\CRF4\08132004\J643795A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 570,575,607,611,642,672,678
Seq#:5; N Pos. 2
Seq#:9; N Pos. 898,1187,1198,1241,1262,1266,1277,1281
Seq#:11; N Pos. 11,30,39,45
Seq#:13; N Pos. 3505,3583
Seq#:46; N Pos. 434,435,450
Seq#:50; N Pos. 2039,2040,2041,2042
Seq#:65; N Pos. 1391,1399,1418,1421,1431,1446,1449,1456,1463,1469
Seq#:68; N Pos. 404,405,406,407,408,409,410,411,412,413,414,415,416,417,418
Seq#:68; N Pos. 419,420,421,422,423,424,425,426,427,428,429,430,431,432,433
Seq#:68; N Pos. 434,435,436,437,438,439,440,441,442,443,444,445,446,447,448
Seq#:68; N Pos. 449,450,451,452,453,454,455,456,457,458,459,460,461,462,463
Seq#:68; N Pos. 464,465,466,467,468,469,470,471,472,473,474,475,502,510,517
Seq#:68; N Pos. 531,546,552,559,569,575,583,590,591,702,703,704,705,706,707
Seq#:68; N Pos. 708,709,710,711,712,713,714,715,716,717,718,719,720,721,722
Seq#:68; N Pos. 723,724,725,726,727,728,729,730,731,732,733,734,735,736,737
Seq#:68; N Pos. 738,739,740,741,742,743,744,745,746,747,748,749,750,751,785
Seq#:68; N Pos. 786,791,814,826,846,886,897,932,939
Seq#:75; N Pos. 3356,3743,3962,3966,3968,3976,3988
Seq#:89; Xaa Pos. 233,328,333

VERIFICATION SUMMARY

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Input Set : A:\P5026R1 sequence listing.txt

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L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:550
M:341 Repeated in SeqNo=2
L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:850
M:341 Repeated in SeqNo=9
L:947 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:1282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:3500
M:341 Repeated in SeqNo=13
L:4699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:400
L:5198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:2000
L:6497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:1350
M:341 Repeated in SeqNo=65
L:6762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:400
M:341 Repeated in SeqNo=68
L:7869 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:3350
M:341 Repeated in SeqNo=75
L:9685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:225
M:341 Repeated in SeqNo=89